MERANT

Edition 2.2

PVCS DIMENSIONS™ WINDOWS CLIENTS INSTALLATION GUIDE

MERANT

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Welcome to Dimensions

Thank you for choosing MERANT® PVCS Dimensions™, a powerful process management and change control system that will revolutionize the way you develop software. Dimensions helps you organize, manage, and protect your software development projects on every level—from storing and tracking changes to individual files, to managing and monitoring an entire development cycle.

Purpose of this manual

This guide documents the:

- pre-installation activities
- installation procedure
- post-installation activities

required for the Windows 2000/NT/98 Dimensions Windows Clients, and the bundled Oracle Developer 6 runtimes.

Installation of the Windows 2000/NT Server Dimensions Server and the bundled Oracle Server is described in the related document "PVCS Dimensions™ – Installation Guide for Windows Servers".

[There is also a companion guide that describes how to install the Dimensions Server and Oracle Server on UNIX platforms.]

For more information

Refer to the *PVCS Dimensions Getting Started Guide* for a description of the Dimensions documentation set, a summary of the ways to work with Dimensions, and instructions for accessing the Online Help.

Edition status

This is Edition *2.2* of the *PVCS Dimensions Installation Guide for Windows Clients.* The information in this edition applies to *Release 7.2 of PVCS Dimensions* or later. This edition supersedes earlier editions of this manual.

Typographical Conventions

The following typographical conventions are used in the online manuals and online help. These typographical conventions are used to assist you when using the documentation; they are not meant to contradict or change any standard use of typographical conventions in the various product components or the host operating system.

Convention	Explanation
italics	Introduces new terms that you may not be familiar with and occasionally indicates emphasis.
bold	Emphasizes important information and field names.
UPPERCASE	Indicates keys or key combinations that you can use. For example, press the ENTER key.
`monospace`	Indicates syntax examples, values that you specify, or results that you receive.
`monospaced italics`	Indicates names that are placeholders for values you specify; for example, *`filename`*.
`monospace bold`	Indicates the results of an executed command.
vertical rule |	Separates menus and their associated commands. For example, select File | Copy means to select Copy from the File menu. Also, indicates mutually exclusive choices in a command syntax line.
brackets []	Indicates optional items. For example, in the following statement: `SELECT [DISTINCT]`, DISTINCT is an optional keyword.
. . .	Indicates command arguments that can have more than one value.

Ordering Hard-Copy Manuals

As part of your Dimensions license agreement, you may print and distribute as many copies of the PVCS Dimensions manuals as needed.

If you do not want to print each of these online manuals, you can order hard-copy versions from MERANT. To order, please contact your sales representative for assistance.

Contacting Technical Support

MERANT provides technical support for all registered users of this product, including limited installation support for the first 30 days. If you need support after that time, contact us using one of the methods below or purchase further support by enrolling in the SupportNet program. For more information about SupportNet, contact your sales representative.

Technical support is available 24 hours a day, 7 days a week, with language-specific support available during local business hours. For all other hours, technical support is provided in English.

WWW

SupportNet Customers can report problems and ask questions on the SupportNet web page: http://support.merant.com/

To submit an issue, click on the **Report a Problem** link and follow the instructions.

The SupportNet Web site contains up-to-date technical support information, which you can access from the SupportNet web page. Our SupportNet Community shares information via the Web, automatic E-mail notification, newsgroups, and regional user groups.

SupportNet Online is our global service network that provides access to valuable tools and information for an online community for users. SupportNet Online also includes a KnowledgeBase, which contains how-to information and allows you to search on keywords for technical bulletins. You can also download fix releases for your PVCS products.

E-mail pvcs.answerline@merant.com

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Belgique (Langue Française)	0800 774 79
France	0800 915 607
Deutchland	0800 1822 496
Hong Kong	800 900 521
Italia	800 791 179
Japan	0120 749090 or 00531 790014 (within Japan only)
Nederland	0800 022 1609

	New Zealand	0800 444 515
	Singapore	800 4481 230
	South Africa	0800 99 1115
	South Korea (Korean)	003 0844 0044
	España	900 968 929
	Suisse (Langue Française)	0800 836 736
	Schweiz (Deutschsprachig)	0800 836 737
	United Kingdom and Ireland	0808 100 2672
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When you contact us, include the following information:

- The **product serial number** located on the Product Registration Information card in the box. The number will be checked to verify your eligibility to receive support. If you do not have a current SupportNet contract, we will ask that you speak with a sales representative.
- Your **name and organization**. On a first-time call, you may be asked for full customer information including location and contact details.
- The **version and build number** of the PVCS product you are using.
- The type and version of the **operating system** you are using.
- Any **third-party software and other environmental information** necessary to understand the problem.
- A **brief description of the problem and the steps necessary to re-create** it. Specific error messages are needed. Depending on the complexity of the problem, you may be asked to submit a re-creatable example demonstrating the problem.
- An assessment of the **severity level** of the reported problem.

1 Introduction

In this Chapter

Dimensions Component Binaries

The Dimensions Windows Clients binaries are supplied on a CD-ROM – called CD-2. The Windows Clients on CD-2 can **only** be installed on **Intel-based** platforms hosting Windows 2000/NT 4.0/ 98, and comprise:

PVCS Data Migration Utility	Provides a GUI-forms interface for one-time data migration of data between: PVCS Version Manager and PVCS Dimensions (or vice versa); and an operating-system directory and Dimensions. This augments command-line data migration utilities.
Dimensions Developer's Toolkit	Provides API and other interfaces for Dimensions.
Dimensions Administration Tools	Includes the Process Modeler, Network Administration Tool, IDE Setup, Replicator Administration, Oracle Developer 6 Runtime and Oracle 8 ODBC Driver.
Dimensions Developer 6 SCC	Provides access to Dimensions from within Oracle Developer 6 (includes SCC integration).
Dimensions SCC Integration	Provides an integration of Dimensions with IDE tools supporting the Microsoft SCC interface. Also includes the PVCS Merge Tool (which allows item comparison and merging, and project directory differencing)
Dimensions Make	Provides Microsoft NMAKE and GNU Make capabilities with Dimensions.

Dimensions PC Client	Provides GUI for Dimensions Version and Change Management. Also includes the PVCS Merge Tool (which allows item comparison and merging, and project directory differencing).
Dimensions Reports	Provides access to the interactive GUI-based Dimensions Standard Reports.
Dimensions Development Interface for various IDE projects:	Provides a Dimensions Development Interface that seamlessly integrates Dimensions with such tools, allowing developers access to Dimensions source control features without leaving the development environment.

Installation of the above Dimensions Windows Clients binaries is the subject of the remainder of this guide.

CAUTION! If you intend installing both the CD-1 and CD-2 binaries on the same platform, you **must** install those from CD-1 first. This will ensure that the Oracle 8i server runtime is installed. See Appendix F, "Installing the Windows Client on a Dimensions Server Node" for details.

Host Requirements for Dimensions Windows Clients

Hardware

CPU and RAM

Minimum	Recommended
133 MHz Intel Pentium 64Mb RAM SVGA or equivalent at 800x600 resolution	200 MHz Intel Pentium 128Mb RAM SVGA at 1024x768 resolution with 256 colors

Disk Space

Disk space requirements depend on the type of installation selected – *Typical, Admin* or *Custom* – explained in detail in "Selecting Components to be Installed" on page 31.

Installation		Space in Mb
Typical	Dimensions 7.2 Total	44
Admin	Dimensions 7.2	70
	Oracle	170
	Oracle Inventory information (on Windows System disk)	25
	Total	265
Custom	Dimensions 7.2	75
	Oracle	170
	Oracle Inventory information (on Windows System disk)	25
	Total	270

Software

Operating System

Operating System Type	Version
Windows NT	4.0 with Service Pack 6a
Windows 98	SE2
Windows 2000 Professional	SP2

NOTE Before installing any Service Packs for Dimensions, please check the certified platforms in the README.

Dimensions Client Products Software

Software Component	Version
PVCS Dimensions Data Migration Utility	3.1
PVCS Dimensions Oracle Developer 6 SCC	1.0
PVCS Dimensions Developer Interface for various IDE projects:	2.1
PVCS Dimensions Developer Toolkit	5.0
PVCS Dimensions IDE Setup	1.2
PVCS Dimensions Make	1.4.7.4
PVCS Dimensions Network Administration Tool	1.4
PVCS Dimensions PC Client	2.9
PVCS Dimensions Process Modeler	1.3
PVCS Dimensions Reports	1.1.0.2
PVCS Dimensions SCC Integration	2.2
PVCS Merge	2.1.9
PVCS Project Merge	1.0
PVCS Replication Administration	1.3

Oracle Software

Software Component	Version
Oracle Developer 6 (Runtime) Forms	6.0.5.0.2
Oracle Developer 6 (Runtime) Graphics	6.0.5.33.0
Oracle Developer 6 (Runtime) Reports	6.0.5.34.1

Network Software

Microsoft TCP/IP.

2 Installation Overview

In this Chapter

Introduction

The installation of the Dimensions Windows Clients involves loading onto the system:

- The Dimensions Windows Clients binaries.
- If you are installing the Dimensions Administration Tools, the Oracle 8i and Developer 6 Runtime components (including Oracle ODBC Driver for Oracle 8) are also needed.

These packages are normally installed on a remote/client Windows 2000/NT/98 platform. They can also be installed on the same Windows 2000/NT Server platform as the Server Products (**after** such an installation). See Appendix F, "Installing the Windows Client on a Dimensions Server Node" for details. The binaries on CD-2 are identified in "Dimensions Component Binaries" on page 14.

This document details the installation of Dimensions Windows Clients in the following situations:

- First time installation of Dimensions Windows Clients.
- Upgrade installation of Dimensions Windows Clients.

Summary of Installation Activities

The installation procedure comprises a number of activities that have to be completed **in the following order**:

1 Pre-installation Activities (**Mandatory**, see Chapter 3).

2 Dimensions Component Subsystems Installation (**Mandatory**, see Chapter 4).

3	Post-installation Activities (**Mandatory**, see Chapter 5).

Individual Dimensions 7.2 component sub-systems provided on CD-2 can be installed in separate installer sessions, although normally they would all be installed in one session.

Unattended (Silent) Installations

It is possible to invoke the Dimensions installer with a specific command line parameter such that a "response file" is created that captures all user responses during a standard interactive installation. That response file can then be used on other Windows nodes to perform unattended cloned Windows Clients components (CD-2) installations. Such unattended installations are referred to as "silent installs".

Please see Appendix C, “Unattended (Silent) Installations” for details.

3 Pre-Installation Activities

In this Chapter

Network Software Requirements

It is a prerequisite for a successful installation of the Dimensions Client Products that TCP/IP be pre-installed on the recipient node; if this is not the case, Dimensions will not function.

General Checks

- If you plan to install the Dimensions Windows Clients onto a Windows 2000/NT Server node presently hosting a Dimensions server, that server **must** be a Dimensions 7.2.
- During installation of the Dimensions Windows Clients you will be prompted for an installation directory. Please note that this directory must **not** be a root-level file system area (e.g. `C:\`) – it must be at a lower level (e.g. `C:\PVCS\DIMENSIONS\7.2\`)
- If you have the Dimensions server or PC Client installed on your computer, then the Dimensions Windows Clients installation will detect this and set the target directory to the home directory of the Dimensions server or PC Client. This is because you are required to install any component you select in the same home area as the Dimensions server or PC Client.
- If you intend installing both the CD-1 and CD-2 binaries on the same platform, you **must** install those from CD-1 first. This will ensure that the Oracle 8i server runtime is installed. See Appendix F, "Installing the Windows Client on a Dimensions Server Node".

Invoking the Installer

Login Restriction: Windows 2000/NT Server

To perform an installation of Dimensions Windows Clients on a Windows 2000/NT Server node you have to login as a member of the *Administrator* group.

Manually Invoking the Installer

If the CD fails to automatically invoke the installer, you can either:

- Force it to by right-clicking on the CD-ROM icon in the **My Computer** window and selecting **AutoPlay**.
- Navigate to the Windows 2000/NT/98 *setup.exe* and execute it.

Logging the Installation

Answers to CD-2 installer questions are stored in the Windows 2000/NT Server registry. These replies will then become the default answers for use in the next installation. It is also recommended that you save a copy of the log file

```
%PCMS_ROOT%\InstallTemp\CD2InstallSettings_<date>_<time>.txt
```

in case you need to contact the PVCS Support Center.

4 Installing Dimensions Windows Clients

In this Chapter

Installation Overview

The Dimensions Windows Clients (listed on page 14) can be installed in one of the following ways:

- On the same Windows 2000/NT Server platform as the CD-1 Dimensions Server Products – a local/server installation. See Appendix F, "Installing the Windows Client on a Dimensions Server Node". In this case, the Oracle Developer 6 components, if installed, are merged into the directory file structure of the Oracle Server – they will not overwrite any newer Oracle files, but will add those files that are missing from the current installation.
- On a network-connected Windows 2000/NT Server or an IBM-compatible Windows 2000/98 node – a **remote/client** installation. In this case, the Oracle Developer 6 components become Oracle clients communicating with the Oracle Server across the network.

If you have your own Oracle Development Server independently of Dimensions, the installer will still use an Oracle home installed **exclusively** for Dimensions 7.2 use.

If you have an in-house **Oracle Developer 6.0** installation, then you may install the Dimensions 7.2 Windows Clients from CD-2, and optionally install Dimensions 7.2 server components from CD-1. (You must install CD-1 **before** CD-2.)

When Dimensions 7.2 Windows Clients are installed from CD-2, a new Oracle 8i client will be created, but Oracle Developer 6.0 will not be installed. The existing Oracle Developer 6.0 installation will be used instead.

Individual Dimensions Windows Clients provided on CD-2 can be installed in separate installer sessions (subject to the following warning), though normally they would all be installed in one session.

CAUTION! If you use the Dimensions CD-2 to upgrade one or more existing Dimensions Windows Clients from a previous release, then you **must** similarly upgrade **all** other binaries on that same node. Mixing binaries from different releases of Dimensions on the same node is not supported.

Pre-Installation Checks

Ensure that the instructions in Chapter 3, "Pre-Installation Activities" have been checked and followed before you attempt to install the software.

Initiating the Dimensions Windows Clients Installation

CAUTION! It is recommended that all unnecessary Windows programs are **shut down** before you start in case they interfere with the installation. A reminder to this effect will be given once the installation session begins.

Invoke the installation setup as described in "Invoking the Installer" on page 25. If you wish to install the Dimensions Client Products on a Windows 2000/NT Server node, you need to login as a user with **Administrator** privilege.

Screen **Welcome**

Screen **Software License Agreement**

If you agree to be bound by this license, click the **Yes** button.

Specifying Dimensions Parameters

Confirming Default Values

Screen **Confirm Dimensions Parameters**

NOTE This screen will only be displayed on a client-only node. On a Dimensions Server the parameters are already fixed, and therefore are not displayed.

This screen shows the present Dimensions configuration parameters from defaults or a previous install.

Existing Dimensions Server:	No
Dimensions Install Directory:	C:\PVCS\Dimensions\7.2\
Dimensions Program Group:	PVCS Dimensions

Either accept the presented values and proceed to "Selecting Components to be Installed" on page 31, or press the associated **Change** button to individually re-specify them.

NOTE If you attempt to install Oracle products in the Dimensions install directory independently of Dimensions, you are likely to encounter problems due to the name (Dimensions) being greater than eight characters. You will therefore need to install those products in a different directory.

Changing Default Values

Where applicable, the change dialogs will provide selection via a **Browse** Folder dialog box.

Screen **Dimensions Home Directory [***c:\PVCS\Dimensions***]**

The Dimensions Windows Clients will be loaded into the directory specified.

CAUTION! Spaces are **not** permitted in the installation directory paths for Dimensions Windows Clients.

Screen **Dimensions Program Group [***PVCS Dimensions***]**

Icons for the PVCS Dimensions Windows Clients will be added to the specified program group i.e. submenu of *Start* | *Program*. You can change the name by specifying a new name or selecting from the list.

Selecting Components to be Installed

Screen **Select Installation Type**

Decide on the extent of installation by selecting one of the following: *Typical*, *Admin* or *Custom.*

The *Typical* option includes only Development tools such as PC Client and has a small footprint because Oracle components are not installed.

The *Admin* option includes configuration and reporting tools and is significantly larger in size than the *Typical* option because Oracle Client runtime and Oracle Developer 6 components are installed

The *Typical* and *Admin* installations have fixed components, so that you can only click *Back* and change the installation type in the previous screen, or click *Install* to launch the installation operations. However, if you select *Custom,* 'Select components to be installed' is your next screen.

Screen **Select components to be installed**

Select or clear the check boxes to specify which components are to be installed – by default they are all checked except where indicated below. The options are:

- Data Migration Utility
- Developer's Toolkit
- Dimensions Administration
- Dimensions Oracle Developer 6 SCC
- SCC Integration[(b)]
- Make
- PC Client
- Reports
- Development Interface[(a)]

a. By default Development Interface is unchecked. The latter component is the Development Interface for various IDE projects.

CAUTION: Checking Development Interface will be effective only if you have already installed CD-1 (Windows Server).

b. By default this component is grayed out. This indicates that only certain parts of the SCC Integration component will be installed by default (these being those parts that **will not** be installed as part of the Developer 6 component). If the Dimensions Developer 6 component is unchecked, the full SCC Integration component will be installed by default, and the check box will be checked ungrayed to indicate this.

NOTE When you select a component, the dialog indicates a size. This size does **not** include the size of files shared with other optional components, and so it will be smaller than the actual total space needed to install that component (indeed it may even be indicated as zero). The total *Space Required* – which appears at the bottom of the dialog – includes the **combined** size of both the components selected and the shared files.

Specifying Oracle Parameters

NOTE The following screen will only be displayed on a client-only node. On a Dimensions Server the parameters are already fixed, and therefore are not displayed.

Confirming Default Values

Screen **Confirm Oracle Parameters**

This screen (if needed) shows the present Oracle configuration parameters from defaults or a previous install

Install Client Oracle:	Yes
Oracle Install Directory:	C:\PVCS\Dimensions\ORANT\

Either accept the presented values and proceed to "Start Copying Files" on page 35, or press the associated **Change** button to individually respecify them. If Oracle is running on your node, you will be told it is active and asked whether you want the installer to automatically shut it down.

Changing Default Values

Where applicable, the change dialogs will provide selection via a **Browse** Folder dialog box.

Screen **Oracle Home Directory [***C:\PVCS\Dimensions\Orant***]**

The Oracle Client files will be loaded into the directory specified.

CAUTION! Spaces are not permitted in the installation directory paths for Dimensions Client Products.

Screen **Oracle Program Group [***PVCS Dimensions Oracle***]**

Icons for the Oracle Client components will be added to the specified program group i.e. sub-menu of **Start | Program**. You can change the name by specifying a new name or selecting from the list.

Start Copying Files

Screen **Start Copying Files**

Once you confirm your re-displayed choices, the actual installation will begin.

Progress Monitoring

NOTE Depending on the Dimensions components selected, the installation may complete before the progress monitor reaches 100% – **this is normal**.

Before the new installation can be used, you need to re-boot Windows.

Proceed to the post-installation activities described in Chapter 5.

SCC Integration: Additional Local Server Installation

An installation of the SCC Integrations component must also be performed locally on the Windows 2000/NT Dimensions server node even if the integration component is not used on the server. This will ensure that the Dimensions server "message files" are up to date (these "message files" contain error messages, SQL scripts etc used both by the Dimensions server and client components).

Error Recovery

Incomplete Installation

If for any reason the installation fails to successfully complete, you will need to perform a complete re-installation.

NOTE You should **not** attempt to de-install an incomplete installation.

Oracle Installation Log Information

Dimensions 7.2 uses the Oracle Universal Installer (OUI) to install Oracle 8i. If the installation of Dimensions fails during the Oracle 8i runtime installation, check the contents of

```
<WINDISK>\Program Files\Oracle\Inventory\logs\silentInstall.log
```

for a possible explanation. The most likely cause is that a previous Oracle installation has not been de-installed correctly. See Appendix A, “De-Installing Dimensions Windows Clients” of this installation guide and the equivalent appendix in "PVCS Dimensions™ – Installation Guide for Windows Servers" for details of the correct de-installation procedures.

5 Post-Installation Activities

In this Chapter

NOTE You must log out and log in again before performing any post-installation activities.

A Dimensions Windows Clients installation can either be performed locally on the same **local/server** Windows 2000/NT Server node or remotely on a **remote/client** Windows 2000/NT/98 node. This chapter describes activities applicable to both these scenarios.

For client installations, you will also need to configure your vendor-specific networking software to make it aware of the remote/client node.

Check Windows 2000/NT/98 Server PATH Environment Variable

For a Dimensions Windows Clients installation on a Windows 2000/NT node, check that the *prog* subdirectory of the installation directory has been added to the *PATH* environment variable.

Setting Up the Dimensions SCC Interface

If there are any problems with the installation of this Dimensions SCC Integration Windows Client, please read the appropriate chapter in the "PVCS® Dimensions™ – Development Interface Implementation Guide".

Additional Local Server Installation

An installation of the SCC Integration Windows Client must also be performed locally on the Windows 2000/NT Server Dimensions server node even if the integration component is not used on the server. This will ensure that the Dimensions server "message files" are up to date (these "message files" contain error messages, SQL scripts etc used both by the Dimensions server and Windows clients).

PowerBuilder Specific Issues on Windows 2000/NT

Certain users on a Windows 2000/NT Server node may receive the following error message when connecting to Dimensions SCC Interface.

```
Unable to Read Registry Value:
Software\MERANT\PVCS Dimensions\7.2\PcmsScc\SCCServerName
```

The registry value in *HKEY_LOCAL_MACHINE* is present and can be read through the registry editor. This is a generic problem for all PowerBuilder SCC interfaces. In order to access Dimensions SCC Interface, either of the following solutions can be employed:

- Make the users that receive this error members of the Administrators Group using the Windows 2000/NT Server **User Manager**.
- Ensure that the permissions on the registry key

  HKEY_LOCAL_MACHINE | *SOFTWARE* | *MERANT* | *PVCS Dimensions* | *7.2* | *PcmsScc*

  for **Everyone** include all of the following permissions:

Create Link	Write DAC
Write Owner	Read Control

This can be accomplished by selecting the key using *regedit*[1] and then using the **Security** pull-down menu to modify the permissions for this key.

Visual Basic 5.0 and 6.0 Specific Issues

Please refer to the document "PVCS® Dimensions™ - Development Interface Implementation Guide" for details of specific issues relating to Visual Basic 5.0 and 6.0.

Setting Up PC Client

Setting Up PC Client on a Platform Hosting both Dimensions Server and Client Binaries

If you are setting up PC Client on a Windows platform hosting Dimensions Server (CD-1), Dimensions Client (CD-2) binaries and Item Libraries, the Network Administration Tool is not required. However, if the Item Libraries do not reside on this platform ,then you have to use the Network Administration Tool (in **Start | Programs | Dimensions**) to set up the connection between the local node and the library node. This is detailed in the related document "PVCS® Dimensions™ – Network User's Guide".

1. Remember to back up your registry before changing values using regedit via Registry | Export Registry File.

Setting Up Aliases for Remote Databases

Before any user on the client node can connect to a remote Dimensions database from PC Client, database aliases for the remote databases must be defined on the **remote machine**. These are NET8 *TWO_TASK* service names defined in `tnsnames.ora` and `listener.ora` files on a remote UNIX server. Please refer to "PVCS® Dimensions™ – Database Administrator's Guide" for information on how these services are set up.

Setting Up Dimensions Administration Tools

- For each Dimensions Windows Client such as the Dimensions Process Modeler, the routing activity described above must be performed unless it has already been done for PC Client.
- Before any user on the client node can connect to a remote Dimensions database from a Dimensions Windows Client such as the Dimensions Process Modeler, database aliases must be defined on the **remote machine** for the remote databases (like those for use with PC Client). Please refer to the preceding description.

  Additionally, for these Dimensions Windows Clients, database aliases for the remote databases must also be defined on the **client node**. Refer to next subsection for the procedure to set a database alias on your client node.

Notes

a You must use the same alias name on the local machine as that which you use on the remote machine.

b The Process Modeler, Replicator Administration and IDE Setup tools connect to the remote Dimensions database

INTERMEDIATE, *ENTRY_LEVEL*, etc., while the Dimensions Network Administration tool connects to the remote Dimensions configuration database *PCMS_SYS*.

- Make sure that *PCMS_DFS or PCMS_SDP are* **not** defined in your Windows services file. These can be defined in the Dimensions services file.

Setting up a Database Alias

To set up a database alias on your client node, navigate from the **Start** button to:

Programs | Oracle - Dimensions | Network Administration | Net8 Configuration Assistant

This will take you into the Oracle install program for setting up database aliases for your remote Dimensions base databases. Use the **Create** action to add an alias for your remote Dimensions database.

Having accessed the **Net8 Configuration Assistant** proceed as follows through the 'wizard' by pressing the *Next* button

Screen **Welcome**

Select "Local Net Service Name Configuration" radio button **not the default.**

Screen **Net Service Name Configuration**

Leave default "Add" radio button selected

Screen **Net Service Name Configuration, Database Version**

Leave default "Oracle 8i database or service" selected

Screen **Net Service Name Configuration, Service Name**

For example, `dev8`

Screen **Net Service Name Configuration, Select Protocols**

Select `TCP`

Screen **Net Service Name Configuration, TCP Protocol**

Complete *Host Name* field as required, for example, *`Moose`*

Leave default radio button selected - *Use the standard port number of 1521*

Screen **Net Service Name Configuration, Testing**

Select *No* to end. Do **not** select *Yes.*

Setting Up Dimensions Reports

Dimensions Reports also requires routing and database aliases to be set up as described for the Dimensions Administration Tools. If the latter has not been installed or additional nodes need to be declared, proceed as described in the preceding sub-sections.

Dimensions Published Views

Please refer to the document "PVCS Dimensions™ – Installation Guide for Windows Servers" for details of the installation of Published Views.

Rebuilding your DTK (API) Applications

If you had built any DTK (API) applications or events with an earlier version of the DTK, then subsequent to installing the new release these will have to be rebuilt.

Setting Up the Data Migration Utility

Upload from PVCS Version Manager Directory Structure

To enable uploading from a PVCS Version Manager directory structure, PVCS Version Manager must be installed on the machine from which the migration or transfer is to take place. The executables must be accessible through the Windows *PATH* environment variable, and when invoked in any working directory must access the corresponding PVCS Version Manager archive. This can be accomplished by setting the *VCSDIR* directive in the appropriate PVCS Version Manager configuration files (either at the directory or system level). Please refer to the related document "PVCS® Dimensions™ – Data Migration Guide" for details on these utilities, and your PVCS Version Manager documentation for information on setting the various variables.

The Data Migration Utility has been verified with PVCS Version Manager 6.7.

Setting Up Dimensions Configuration Variables

All Dimensions client configuration variables are specified in the client file `pcms.cfg` that resides in the client *PCMS_ROOT* directory. Please refer Appendix B, “Setting Dimensions Symbols” for more details.

A De-Installing Dimensions Windows Clients

In this Appendix

Introduction

If you wish to de-install the Dimensions Windows Clients, proceed as described below. If you wish to do this for a Windows 2000/NT Server node, you must also ensure that you logon with Windows 2000/NT Server Administrator privileges. Reference to this appendix in the previous edition of this document may also be useful.

Caution 1

Before initiating the procedure, ensure that you are not running any Dimensions or Oracle applications or services and that you do not have a Windows Explorer or DOS Window open on any of the Dimensions or Oracle directories.

Caution 2

If you currently have the CD-1 Dimensions Server components installed on the **same** node as the CD-2 Dimensions Windows Clients, then the proceed as follows:

- If you wish to retain use of the CD-1 binaries: ensure that you **decline** the option of invoking the Oracle Universal Installer (OUI) during the de-installation of the CD-2 binaries. The Oracle binaries need to be retained for use by CD-1.
- If you wish to de-install **both** the CD-2 and CD-1 binaries: de-install the CD-2 binaries **first** and again ensure that you **decline** the option of invoking the OUI during the de-installation of the CD-2 binaries. The OUI will be required during the de-installation of the CD-1 binaries (see "PVCS® Dimensions™ – Installation Guide for Windows Servers").

Caution 3

There are files that are included in more than one of the Dimensions Windows Clients. When the last component that uses a file is removed during the de-installation procedure, you will be asked whether or not to remove the file. It is not recommended that any Dimensions file be shared with another product. As long as this is the case, it is safe to answer **Yes To All** and remove all the shared files.

Automatically De-Installing the Windows Clients

You can automatically de-install the Windows Clients as follows.

Removing the Dimensions Windows Components

- Access the Windows Control Panel **Add/Remove Programs** dialog:

  ```
  Start | Settings|Control Panel|Add/Remove Programs
  ```

- Select the following program item for removal:

  ```
  PVCS Dimensions Tools 7.2
  ```

  If prompted[1], invoke the OUI. Once the OUI is invoked, **it is not possible to successfully cancel its operation despite the presence on the OUI of a Cancel button. See next section for details on how to de-install Oracle using the OUI.**

  The above operations will remove all Dimensions Windows Clients (it is not possible to remove individual products) and will also attempt to automatically delete the contents of directory

  ```
  Pvcs\Dimensions\7.2
  ```

1. You will not be prompted for the OUI if you have both the CD-1 and CD-2 binaries on the same node.

De-Installing Oracle using the Oracle Universal Installer

- Click the **Deinstall Products** button.
- Click the **Independent Products** and **Dimensions** icons in the graphical tree and select the following products for deletion:

  Java Runtime Environment 1.1.7.30
  Oracle Universal Installer 1.7.1.9.0
  Oracle 8i Client 8.1.7.2.2
- Click the **Remove ...** button.
- Click the **Yes** button on the displayed **Inventory** dialog to begin the deletion process.
- Upon completion of the deletion process, the **Inventory** dialog will be redisplayed to confirm that you have no installed products.
- Click the **Close** button on the **Inventory** button followed by the **Exit** button on the Oracle Universal Installer dialog to complete the deletion of the associated Oracle components.
- The deletion process will also attempt to automatically delete the contents of directory:

  `Pvcs\Dimensions\Orant`

Manually De-Installing the Windows Clients

If the automatic de-installation procedure fails for some reason, you can manually de-install the Windows Clients as follows.

Clearing Up Left Over Files

A failed automatic de-installation procedure will probably not remove all updated files in the directory structures previously discussed. If these updated files **do not** contain data that you wish to retain **and you do not** have a CD-1 installation and Oracle database, complete the clearing up process by deleting the following directories (replace the default names below if you specified alternatives during installation):

```
C:\Pvcs\Dimensions\7.2
C:\Pvcs\Orant
```

Clearing Up Your *PATH* Environment Variable

Update your *PATH* environment variable to remove the following pathname elements (delimited by semicolons ';') – the full pathnames will depend on the choices you specified during installation:

```
C:\Pvcs\Dimensions\7.2\prog
C:\Pvcs\Dimensions\orant\devtools\bin
C:\Pvcs\Dimensions\orant\bin
C:\Pvcs\Dimensions\orant\jre\1.1.7\bin
```

CAUTION! If you have any other PVCS products installed, for example PVCS Version Manager, be careful about the Path elements you delete.

To perform the edit in:

- Windows 2000/NT Server

  Access the Windows Control Panel **System** dialog, **Environment** tab

```
Start |Settings | Control Panel | System Environment
```

and edit the *PATH* entry **Value** text field.

- Windows 98

  Access Windows Notepad and open

  ```
  C:\AUTOEXEC.BAT
  ```

  to perform the edits.

Tidying Up the *Start* | *Programs* Menu

You may find it necessary to tidy up the Start | Programs menu. Please consult your Microsoft Windows documentation or get help from your System Administrator.

Completing the De-Installation Procedure

To complete the de-installation procedure, reboot the Windows node.

This is especially important if you intend to reinstall any of the Windows Clients that you have just de-installed.

B Setting Dimensions Symbols

In this Appendix

All Windows Client Nodes

Each Dimensions Windows Clients installation contains a configuration file *pcms.cfg* located in directory %PCMS_ROOT% that specifies Dimensions Windows configuration symbols for that particular installation (a larger similar named file is created for CD-1 Server Products installations on the server node). If the installation is part of a larger network of Dimensions installations, care must be taken to ensure that configuration settings that affect communication with other installations are the same.

The directory *%PCMS_ROOT%* is specified by the registry key:

HKEY_LOCAL_MACHINE | *SOFTWARE* | *MERANT* | *PVCS Dimensions* | *7.2* | *PCMS_ROOT*

This is set during the installation and is the default Dimensions configuration for all users of the machine.

NOTE The value of the *PCMS_ROOT* variable must always end with \ (backslash).

Settings in the *pcms.cfg* file are installation-wide, so parameters that are to be specific to each user must be set in the user's environment. If settings are made both in the *pcms.cfg* configuration file and in the user's environment, the user's environment takes precedence.

These configuration parameters and environment variables are generically referred to as “Dimensions Symbols” to reflect that analogous assignment mechanisms are used for the Dimensions UNIX product (utilizing environment variables with the same legend). Most Dimensions Symbols are supported on all the operating systems.

A full discussion of Dimensions symbols is given in Appendix E "Setting Dimensions Symbols" of the related document "PVCS Dimensions™ – Installation Guide for Windows Servers". Here, only those symbols that are recommended for modification on the client node are discussed.

Modifying *pcms.cfg* Entries

Most of the installation-wide entries in *pcms.cfg* should be left unaltered i.e. they should **not** be changed by end users.

The following entries in *pcms.cfg* **may** be altered if desired. See the indicated page in this appendix for further discussion of these parameters.

***pcms.cfg* Entry**	**Page**
PCMS_TMP	56
PCMS_DELETE	61
PCMS_PRINT	60

Windows 2000/NT Server Client Nodes

The *pcms.cfg* configuration file can also use a predefined environment variable or a configuration symbol that has been defined earlier in the file, for example:

```
PCMSDB          %USERNAME%
```

would set the configuration symbol *PCMSDB* to be the contents of the environment variable *USERNAME*, which must have been set before the Dimensions tools are run. Setting the value to a

NULL value in the environment has the same affect as the environment variable not being set.

It may be convenient to set these values in:

Start Menu | *Settings* | *Control Panel* | *System*

specifying them in the *User Environment Variables* for the currently logged on user.

Typically, the values for *LOCAL* (the host database *TWO_TASK* in the login dialogs) and *PCMSDB* (the Dimensions user database account to use) would be set for each user database. If all users of the machine use the same database then the *LOCAL* value may be set in the `pcms.cfg` file. Users whose *PCMSDB* value is the **same** as their Windows 2000/NT Server Login ID need not set *PCMSDB*.

Installation and File Location Symbols

These are defined in the installation `pcms.cfg` file and are specific to the installation–normally they should not need adjustment.

PCMS_TMP

This symbol controls the location of a temporary area for general tools.

User Database Assignment

PCMSDB

Before invoking Dimensions, the symbols *PCMSDB* and *LOCAL* need to have been set such that they take into account the whereabouts of the RDBMS database i.e. whether resident on the local machine or on a remote machine accessible via TCP/IP. You will have been notified of the identity of the symbol by e-mail when you were created as a Dimensions user by the Tool Manager. Within the Dimensions file the default settings are:

```
PCMSDB        <basedb>
LOCAL
```

In the following discussion:

- Dimensions Client Tools are tools such as: PC Client, SCC Interface
- Dimensions Administration Tools are tools such as Process Modeler, PVCS Replicator, Network Administration, Data Migration Utility, and IDE Setup.

Dimensions Client/Administration tools do not use the *PCMSDB* or *LOCAL* symbols within *pcms.cfg*. Instead, they use a connection dialog box in which settings can be saved and restored–see the related document "PVCS Dimensions™ – PC Client User's Guide" for details.

If the database is resident on the local machine, then:

- To be able to run Dimensions commands from the Command Prompt, *LOCAL* and *PCMSDB* should be unset and set respectively as follows:

```
set LOCAL=

set PCMSDB=<basedb>/password(1)
```

or

```
set PCMSDB=<basedb>(2)
```

- To be able to run local Dimensions Clients/Administration tools, use the local login setting the *TWO_TASK* field to the value appropriate for the local database (*ora8i* by default).

  NOTE The *TWO_TASK* field needs to be set even for local connections.

  Although it is also technically possible to have the database resident locally on a Windows 2000/NT Server node and access a Dimensions server resident on a remote node (you would use the remote login dialog of the particular Dimensions Clients/Administration tool concerned and have a *TWO_TASK* on the remote Dimensions server pointing back to the database on the Windows 2000/NT Server node), such a setup is not recommended i.e. it is recommended that if a database is resident locally on a Windows 2000/NT Server node then the Dimensions server should be resident locally there as well.

If the RDBMS database resides on a remote node accessible via TCP/IP, then:

- To be able to run Dimensions commands from the Command Prompt, *LOCAL* and *PCMSDB* should be set as follows:

1. For a plain password.
2. For an encrypted password.

```
set LOCAL=<ora_service_name>

set PCMSDB=<basedb>/password (1)
```

or

```
set PCMSDB=<basedb>(2)
```

- To be able to run Dimensions Clients/Administration tools using a local or remote login (the terms local and remote refer to the location of the Dimensions server **not** the RDBMS), the name of the database server node as supplied at the time of Dimensions installation needs to be supplied in login dialog (generically called *TWO_TASK* in that dialog).

In the above, `<ora_service_name>` is the Oracle NET8 Service Name; this is normally the same as the Oracle instance identifier <*orasid*> assigned to Dimensions on the node hosting the RDBMS database. However, if there are other databases in the network with the same <*orasid*>, an alternative `<ora_service_name>` should be specified.

The Windows "Net8 Configuration Assistant" GUI tool is available from the Oracle – Dimensions | Network Administration menu from the *Programs* menu of the *Start* button. This tool simplifies the setting up of database aliases to identify remote databases to which connections will be requested. See page 42 for further details.

Windows 98 Notes

As a Windows 98 Dimensions installation can only be a Dimensions client, all operating-system user, Dimensions user and connection details are with respect to the *remote* Dimensions Server and the *remote* database. To use the Windows 98/Dimensions Clients/Administration Tools to access the remote Dimensions and database servers, these details will

1. For a plain password.
2. For an encrypted password.

be required so that the remote login dialog can be completed – see the related document "PVCS Dimensions™ – PC Client User's Guide" for details.

In addition, however, the Windows 98 version of the Dimensions Administration Tools uses the local Oracle Client Tools for Dimensions installed as part of its own installation. These Oracle tools must be locally aware of database aliases before the Dimensions Administration Tools can be executed. A Windows 98 "Net8 Configuration Assistant" GUI tool is available from the Oracle – Dimensions | Network Administration from the *Programs* menu of the *Start* button.

This tool simplifies the setting up of database aliases to identify remote databases to which connections will be requested. See "Setting up a Database Alias" on page 42 for the "wizard" sequence.

Printing Data

PCMS_PRINT

This Dimensions symbol provides an interface to a print tool. When Dimensions commands require printing of various reports they call this interface.

The Dimensions configuration file *pcms.cfg* contains a configuration record for the print tool. By default this is set to access the Windows 2000/NT Server command **lpr** on a Windows 2000/NT Server server caller *server*:

```
lpr -S server -P printer
```

This may be changed, either to reference the server machine and printer you use for the **lpr** command, or else changed entirely to whatever command you use for printing.

Deleting Unwanted Files

PCMS_DELETE

For operations within Dimensions in which files are to be deleted, the tool specified by the *PCMS_DELETE* Dimensions symbol is used.

The Dimensions configuration file *pcms.cfg* contains a configuration record for file deletion that is by default set to force such deletions:

```
del /f
```

This may be changed, for example, for safety reasons such that the files are not deleted but renamed into some suitable directory.

C Unattended (Silent) Installations

In this Appendix

Introduction

It is possible to invoke the Dimensions installer with a specific command line parameter such that a "response file" is created that captures all your responses during a standard interactive installation. That response file can then be used on other Windows nodes to perform unattended cloned Dimensions Windows Clients (CD-2) installations (automatic electronic software distribution). Such unattended installations are referred to as "silent installs".

Creating a Response File

Unlike a standard installation that receives its input from you in the form of responses to dialog boxes, a silent installation does not prompt you for input. Instead, it get its input from an InstallShield Silent Response File ("*.iss*" file).

A response file contains information similar to that which you would enter as responses to dialog boxes when running a standard install. The installer reads the necessary input from the response file at run time.

The format of a response files resembles that of an "*.ini*" file, but with an "*.iss*" extension. A response file is a plain text file consisting of sections containing data entries.

To create a response file you run *setup* as explained below and have the installer record and create the response file for you.

Recording a Response File

To record a response file, simply run *setup* with the following command line parameter:

```
setup –r
```

The installer will record all your installation choices in the following response file:

```
C:\Windows\Setup.iss
```

Launching a Silent Installation

After you have performed your standard installation and captured your inputs in a response file, you are ready to run a duplicate installation in silent mode on another Windows node. When running an installation in silent mode, be aware that no messages are displayed. Instead, a log file named *Setup.log* captures installation information, including whether the installation was successful or not. You can review the log file and determine the result of the installation.

To launch a silent installation, simply run *setup* with the following command line parameter:

```
setup –s
```

The installer also provides *-f1* and *-f2* switches so you can specify the name and location of the response file and the location of the log file respectively, for example:

```
setup -s -f1c:\winnt\setup.iss -f2c:\temp\setup.log
```

To verify if a silent installation succeeded, look at the *ResultCode* value in the *[ResponseResult]* section of *Setup.log*. The installer writes an appropriate return value after the *ResultCode* keyname.

Using the *Setup.log* to Check for Errors

The *Setup.log* file contains three sections:

- The first section, *[InstallShield Silent]*, identifies the version of InstallShield Silent used in the silent installation. It also identifies the file as a log file.
- The second section, *[Application]*, identifies the installed application's name and version, and the company name.
- The third section, *[ResponseResult]*, contains the result code indicating whether or not the silent installation succeeded. An integer value is assigned to the *ResultCode* keyname in the *[ResponseResult]* section. The installer places one of the following return values after the *ResultCode* keyname:

Result Code	Meaning
0	Success.
-1	General error.
-2	Invalid mode.
-3	Required data not found in the *Setup.iss* file.
-4	Not enough memory available.
-5	File does not exist.
-6	Cannot write to the response file.
-7	Unable to write to the log file.
-8	Invalid path to the InstallShield Silent response file.
-9	Not a valid list type (string or number).
-10	Data type is invalid.

Result Code	Meaning
-11	Unknown error during setup.
-12	Dialogs are out of order.
-51	Cannot create the specified folder.
-52	Cannot access the specified file or folder.
-53	Invalid option selected.

For a successful silent installation, the *[ResponseResult]* section of the *Setup.log* will therefore appear as follows:

```
[ResponseResult] ResultCode=0
```

D Trouble Shooting (Intel Windows 2000/NT 4.0 Server)

In this Appendix

Introduction

This appendix addresses problems that have been reported by various customers during or following a Dimensions Windows Clients installation on an Intel Windows 2000/NT 4.0 Server platform. Refer also the top level *README* file.

Installation Problems

Problem	Cause and Solution
InstallShield does not automatically start.	■ Eject the CD-ROM and re-insert it. If it still fails to automatically run, then the setup program can be started from the Start | Run option by doing a *Browse* and selecting the CD-ROM and then the program "*`setup.exe`*".
The installation fails to install into the specified directory.	■ Check the directory structure specified does not contain any special characters or spaces, for example: • Directory name `C:\Dimn Progs\` is not valid (because of the space between *Dimn* and *Progs* – this is the most common error), but • Directory name `C:\Dimn_Progs\` is valid.

Connection Problems

Problem	Cause and Solution
Unable to connect using PC Client.	The Dimensions Server may not be running. Ask your administrator to check that all the service components are active on the server. You are not using a valid login i.e. one other than that specified during the installation or created by the Tool Manager. Shut down the PC and login using the correct login ID.
"*I can log in using PC Client but the Process Modeler will not allow a connection.*"	You have not defined a *TWO_TASK* alias. Start the Oracle "Net8 Configuration Assistant" tool and set up the alias for connection to your database.
Unable to connect to the server.	The server name has not been defined in the `dfs.dat` file. See Setting Up PC Client post-installation activity on page 40 for details.

E Interconnecting Dimensions 6.0 and 7.x Servers

In this Appendix

Updating the *dfs.dat* File

When interconnecting Dimensions 6.0 and 7.x servers, it is necessary to add entries to the *dfs.dat* file in the *dfs* subdirectory of your Dimensions installation describing your server environment. Without these entries, you will receive an error when you attempt to connect from a Dimensions client to a remote server. Using an incorrect entry can lead to file translation problems when connecting from PC clients to non-Windows servers.

The entries are of the format shown below with examples of entries shown immediately beneath. The significance of each field is described in the next table.

<Logical_name>	<Host_name>	<Service>	<Protocol>	<OS>	<Filesystem>	<Codepage>
proj1	proj1.eu.merant.com	pcms_dfs	TCP	UNIX	OS	819
proj2	proj2.eu.merant.com	pcms_sdp	SDP	UNIX	OS	819
If you have a purely Windows 2000/NT Server environment, then the following entries can be used:						
*	*	pcms_sdp	SDP	NT	OS	819
*	*	pcms_replicator	INT	NT	OS	819
In a heterogeneous environment, you will need to identify the operating system types of the servers to which you will be connecting.						
projdbs	projhost	pcms_sdp	SDP	MVS	OS	500
devdbs	devhost	pcms_sdp	SDP	NT	OS	819
Where there are a number of servers with different operating system types, then, each server should be entered in the *dfs.dat* file using its hostname and operating system type.						

Each line of the file defines one connection between this node and another node, and contains the following seven fields with at least one space between each field**.** Any lines starting with a left angle bracket symbol are treated as comment lines and ignored:

Field Name	Comment
`<Logical name>`	Logical name of the remote node. A physical node can have more than one logical name. You can specify an asterisk in this field, to denote that the node can connect to any node in the network.
`<Host_name>`	Physical host name of the remote node. You can specify an asterisk in this field**,** to denote that the node can connect to any node in the network.
`<Service>`	If this field starts with a digit it is treated as the TCP/IP port number of the remote machine. If it does not, it is treated as a service name defined in *`pcms.cfg`* file. In this example: ■ *pcms_dfs* denotes a server running release 6.0 of Dimensions. ■ *pcms_sdp* denotes a server running Dimensions 7.x.
`<Protocol>`	The communication protocol used by the connection must be one of the following: ■ SDP SDP Dimensions V2 TCP/IP protocol. Use this protocol on nodes requiring to access a Dimensions 7.x. server (i.e. a Dimensions 7.x. installation which hosts Dimensions item libraries).

Field Name	Comment
	■ INT — INT Dimensions V2 TCP Dimensions/IP protocol. Use this protocol for Replicator nodes ■ TCP — TCP Dimensions V1 TCP/IP legacy protocol. Use this protocol on a node requiring access to a Dimensions 6.x library server.
<OS>	The operating system used by the remote node. Must be one of the following: ■ UNIX: Any version of the UNIX operating system ■ NT: Any version of the Windows 2000 /NT operating system ■ MVS: The OS/390 MVS operating system
<Filesystem>	The file system used by the remote node, always OS meaning the file system native to the operating system of the remote node.
<Codepage>	The code page used by the connection for text files so that they are converted from one code page to another when they are checked out or gotten. The two codes used here are: 500 International (EBCDIC) 819 ISO-8859-1 (ASCII) For a comprehensive list please refer to the PVCS® Dimensions™ – Network User's Guide.

F Installing the Windows Client on a Dimensions Server Node

In this Appendix

Introduction

The CD-2 Windows Client installation can be made to the same platform as a Dimensions Windows Server.

The Dimensions Server Windows binaries are supplied on a single CD-ROM–called CD-1. The Windows binaries on CD-1 can **only** be installed on **Intel-based** platforms hosting Windows 2000/NT 4.0 Server platforms, and comprise:

Dimensions Server	Enables all Dimensions Configuration Management Server facilities.
Oracle Server runtime	The RDBMS foundation software used by Dimensions.
PVCS Replicator *[licensed option]*	Provides item replication and management across remote Dimensions databases via a command-line and/or GUI-forms administration interface.

Installation of the above Dimensions Server Products Windows binaries is described in the related document "PVCS® Dimensions™ – Installation Guide for Windows Servers".

The Oracle Developer 6 components for the CD-2 Windows Client installation, if installed, will be merged into the directory file structure of the Oracle Server – they will not overwrite any newer Oracle files, but will add those files that are missing from the current installation.

Dimensions 7.2 supports multiple Oracle homes. If you have your own Oracle Development Server independently of Dimensions, the installer will still always use an Oracle home installed **exclusively** for Dimensions 7.2 use.

General Checks

Proceed as described in the main chapters of this guide. However, you will need to be aware of the following points:

- You **must** have the CD-1 binaries installed before installing those from CD-2. This will ensure that the Oracle 8i server runtime is installed.
- The server **must** be a Dimensions 7.2.
- The Dimensions Windows Clients installation will detect that you have the Dimensions server installed on your computer and set the target directory to the existing home directory. This is because you are required to install any component you select in the same home area as the Dimensions server.
- If you need to de-install the Dimensions Client refer to the cautions in Appendix A, "De-Installing Dimensions Windows Clients".

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